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Six hundred and fortieth Meeting.

January 31, 1872. — STATED MEETING.

The PRESIDENT in the chair.

Professor N. S. Shaler called the attention of the Academy to the want of suitable rooms for their library and meetings, and suggested that better accommodations might be obtained in the building of the Boston Society of Natural History.

A Committee consisting of Messrs. Edmund Quincy, J. I. Bowditch, and N. S. Shaler, was appointed to consider this matter.

The following gentlemen were elected into the Academy: —

Charles A. Dunbar, of Cambridge, to be a Resident Fellow in Class III., Section 3.

William A. Rogers, of Cambridge, to be a Resident Fellow in Class I., Section 2.

Professor Crafts made some remarks on a new reaction, involving phosphorus, iodine, and the organic radical ethyl, in which the ethyl, contrary to the ideas held hitherto by most chemists, shows a stronger affinity for the phosphorus than does the iodine, setting the latter free and combining with the former to give a compound, from which the oxide of triethylphosphine can easily be obtained.

This result, which was realized by Mr. Emmerton in the laboratory of the Institute of Technology, was foreseen in a paper published in the "Journ. Chem. Soc." in 1871, by Messrs. Crafts and Silva.

Dr. Charles Pickering suggested that the story of Orpheus moving the rocks by his music might have originated from the method in which the Egyptians moved their immense masses of stone. Although some of them were ninety feet long and fourteen feet square, they were drawn by men, one of whom regulated the motions of the rest by standing on top and clapping his hands.

Professor Joseph Lovering made the following communication: —

On the 5th of October, 1793, the National Convention of France

abolished the use of the Gregorian Calendar and established in its place the Republican Calendar.* A previous decree of the 22d September, 1792, had ordered that, after that day, all public acts should be dated from the first year of the Republic, without, however, changing the beginning of the year.† On the 24th of October,‡ a report was accepted which resulted in the decree of the 24th of November, when the details and nomenclature of the new calendar were adopted, and also the division of the day into 100,000 seconds. These decrees took effect from the 26th of November, 1793, when the new dates began to be used in recording the sessions and public acts of the Convention. So much as relates to the decimal division of the day was not obligatory until the first day of the year III., and was suspended in its operation, April 7, 1795. On the 8th of April, 1802, the week of seven days and their names were restored. On the 9th of September, 1805, an edict of Napoleon, upon the recommendation of a committee of which Laplace was chairman, ordered the restoration of the Gregorian Calendar on the 1st of January, 1806. It was asserted by Laplace, that the people of France had always adhered to the Gregorian reckoning, in common affairs from preference, and in ecclesiastical dates from necessity, and the expectation that any other nation would adopt the French innovation was a chimera.§

The Republican Calendar divided the year into twelve months of thirty days each. Four of these years make a *Franciade*, the last being called *sextile*, because it contained the extra day. The year which introduced the additional day was also called the *Olympic*. At the end of this year six *complementary* days were intercalated, and in other years only five. These *complementary* days were holidays, and were vulgarly called *Sansculottides*; also, *Épagomènes*.

The era of the new Chronology was antedated to the 22d of September, 1792, when the Republic was established and when the sun entered *Libra*, which was hailed as the symbol of equality. Each

* Dictionnaire Général de la Politique, par Block, p. 301. Dictionnaire de l'Administration Française, p. 293. National Cyclopedia, VII., p. 690. Arago. Astronomie, IV., pp. 667-701. Ideler. Handbuch der Chronologie, II., pp. 468-470. Companion to the British Almanac for 1828, p. 5, and 1830, pp. 19, 20.

† Choix de Rapports, Opinions, et Discours, etc., X., p. 24.

‡ Le procès-verbal du lendemain, 25 October, porte le date du 4 Frimaire de l'an II. de la République Française. Ibid., XIII. p. 96.

§ Choix de Rapports, Opinions, et Discours, XIX. 191-199.

succeeding year must begin so that the equinox will occur some time during the first twenty-four hours. Though the names of the different months are derived from four different languages, they are narrowed in their meaning to the special climate of particular localities. If there were any good scientific reason for shifting the beginning of the year from the solstice to the equinox, only southern astronomers would have selected the autumnal equinox.*

Of the Republican Calendar, the late John Quincy Adams said: "This system has passed away and is forgotten. This incongruous composition of profound learning and superficial frivolity, of irreligion and morality, of delicate imagination and coarse vulgarity, is dissolved." Unfortunately the effects of this calendar, though it was used for only about twelve years, have not passed away. It has entailed a permanent injury on history and on science. The conversion of the Julian and Gregorian reckonings into each other is comparatively simple. It is done by adding or subtracting a quantity so constant that it only changes three times in the course of four hundred years. But the reduction of Republican dates into Gregorian style is more perplexing, especially if it must be done on the sudden, when the mind is absorbed in other studies. The only sufficient remedy is a full concordance for every one of the forty-four hundred and nineteen days during which the revolutionary calendar was used. Mr. John J. Bond † has made some approach to this by printing the Gregorian dates for the first and last days of each month of the Republican Calendar, and also the Republican dates for the first and last days of each Gregorian month. But, unhappily, he has been led into error, even in this partial reduction, by supposing that the years IV., and VIII., and XII., of the new era were leap years *in fact*, because they were called *sextile* or the last of the Franciades. It appears, however, by the *Connaissance des Temps*, that the extra day was introduced at the end of the years III., and VII., and XI., corresponding to September 22, 1795, September 22, 1799, and September 22, 1803. Consequently there must be an error of one day in Bond's Tables for the years IV., and VIII., and XII., of the Republican era.

The Bureau of Longitudes, established by a law of June 25, 1795 (Messidor 7, An III.), was charged by Article IX. of its regulations with the duty of presenting, each year, to the Legislative Body an

* Delambre. *Astronomie*, III., p. 696.

† Handy Book of Rules and Tables, pp. 102 - 112.

Annual as a guide for the whole Republic. In one of the volumes * I read as follows : " Chaque année commence à minuit avec le jour dans lequel arrive l'équinoxe vrai d'automne, à Paris. D'après cette règle, les années III., VII., XI., etc., doivent être sextiles, c'est-à-dire avoir six jours complémentaires. On trouvera la table dans le Manuel républicain."

Mr. Bond was probably led into his mistake by assuming that the first Franciade began with the first year of the French Republic. It appears, however, from the instructions drawn up by Romme, in behalf of the Committee of Public Instruction, to assist in the introduction of the new system with the people, that the first year of the first Franciade was the year preceding the first year of the Republic; and for the following reason, given in his own words : " La première année de l'ère nouvelle commencerait une nouvelle période de quatre ans si Jules César et Grégoire XIII., en plaçant la bissextile, avaient moins consulté leur orgueil que la rigueur de la concordance astronomique, et si jusqu'à présent nous n'avions été les serviles imitateurs des Romains. La raison veut que nous suivions la nature, plutôt que de nous traîner servilement sur les traces erronées de nos prédécesseurs : nous devons donc fixer invariablement notre jour intercalaire dans l'année que la position de l'équinoxe d'automne comportera. Après une première disposition que la concordance avec les observations astronomiques rend nécessaire, la période sera de quatre ans," etc. And again : " La seconde table fait connaître l'ordre des Franciades ; on y voit que nous sommes à la troisième année de la première Franciade." † This document bears the date of Frimaire 4, de l'an II. (November 24, 1793).

Therefore, the first Franciade ended with the *third* year of the Republic, and the extra day was introduced at the end of this year. Inasmuch, therefore, as there is great liability to mistakes, not only in reducing scattered dates from the French Republican calendar into the Gregorian calendar, and back again from the latter into the former, but also in the construction of a partial concordance, I have thought the calculation and publication of a full concordance to be not a superfluous task, especially since the early and lamentable failure of the new system allows it to be brought within the compass of a dozen pages.

It was voted that these tables be published in the Proceedings of the Academy.

* *Annuaire de la République Française pour l'année VII. de l'ère Française*, p. 34.

† *Choix de Rapports, Opinions, et Discours, etc.*, XIII., 104, 105.

Vendémiaire, or Vintage-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XIV.
	1793.	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.
1	22	22	23	22	22	22	23	23	23	23	24	23	23
2	23	23	24	23	23	23	24	24	24	24	25	24	24
3	24	24	25	24	24	24	25	25	25	25	26	25	25
4	25	25	26	25	25	25	26	26	26	26	27	26	26
5	26	26	27	26	26	26	27	27	27	27	28	27	27
6	27	27	28	27	27	27	28	28	28	28	29	28	28
7	28	28	29	28	28	28	29	29	29	29	30	29	29
8	29	29	30	29	29	29	30	30	30	30	Oct. 1	30	30
9	30	30	Oct. 1	30	30	30	Oct. 1	Oct. 1	Oct. 1	Oct. 1	2	Oct. 1	Oct. 1
10	Oct. 1	Oct. 1	2	Oct. 1	Oct. 1	Oct. 1	2	2	2	2	3	2	2
11	2	2	3	2	2	2	3	3	3	3	4	3	3
12	3	3	4	3	3	3	4	4	4	4	5	4	4
13	4	4	5	4	4	4	5	5	5	5	6	5	5
14	5	5	6	5	5	5	6	6	6	6	7	6	6
15	6	6	7	6	6	6	7	7	7	7	8	7	7
16	7	7	8	7	7	7	8	8	8	8	9	8	8
17	8	8	9	8	8	8	9	9	9	9	10	9	9
18	9	9	10	9	9	9	10	10	10	10	11	10	10
19	10	10	11	10	10	10	11	11	11	11	12	11	11
20	11	11	12	11	11	11	12	12	12	12	13	12	12
21	12	12	13	12	12	12	13	13	13	13	14	13	13
22	13	13	14	13	13	13	14	14	14	14	15	14	14
23	14	14	15	14	14	14	15	15	15	15	16	15	15
24	15	15	16	15	15	15	16	16	16	16	17	16	16
25	16	16	17	16	16	16	17	17	17	17	18	17	17
26	17	17	18	17	17	17	18	18	18	18	19	18	18
27	18	18	19	18	18	18	19	19	19	19	20	19	19
28	19	19	20	19	19	19	20	20	20	20	21	20	20
29	20	20	21	20	20	20	21	21	21	21	22	21	21
30	21	21	22	21	21	21	22	22	22	22	23	22	22

Brumaire, or Fog-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XIV.
	1793.	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	Oct. 22	Oct. 22	Oct. 23	Oct. 22	Oct. 22	Oct. 22	Oct. 23	Oct. 23	Oct. 23	Oct. 23	Oct. 24	Oct. 23	Oct. 23
2	23	23	24	23	23	23	24	24	24	24	25	24	24
3	24	24	25	24	24	24	25	25	25	25	26	25	25
4	25	25	26	25	25	25	26	26	26	26	27	26	26
5	26	26	27	26	26	26	27	27	27	27	28	27	27
6	27	27	28	27	27	27	28	28	28	28	29	28	28
7	28	28	29	28	28	28	29	29	29	29	30	29	29
8	29	29	30	29	29	29	30	30	30	30	31	30	30
9	30	30	31	30	30	30	31	31	31	31	Nov. 1	31	31
10	31	31	Nov. 1	31	31	31	Nov. 1	Nov. 1	Nov. 1	Nov. 1	2	Nov. 1	Nov. 1
11	Nov. 1	Nov. 1	2	1	1	1	2	2	2	2	3	2	2
12	2	2	3	2	2	2	3	3	3	3	4	3	3
13	3	3	4	3	3	3	4	4	4	4	5	4	4
14	4	4	5	4	4	4	5	5	5	5	6	5	5
15	5	5	6	5	5	5	6	6	6	6	7	6	6
16	6	6	7	6	6	6	7	7	7	7	8	7	7
17	7	7	8	7	7	7	8	8	8	8	9	8	8
18	8	8	9	8	8	8	9	9	9	9	10	9	9
19	9	9	10	9	9	9	10	10	10	10	11	10	10
20	10	10	11	10	10	10	11	11	11	11	12	11	11
21	11	11	12	11	11	11	12	12	12	12	13	12	12
22	12	12	13	12	12	12	13	13	13	13	14	13	13
23	13	13	14	13	13	13	14	14	14	14	15	14	14
24	14	14	15	14	14	14	15	15	15	15	16	15	15
25	15	15	16	15	15	15	16	16	16	16	17	16	16
26	16	16	17	16	16	16	17	17	17	17	18	17	17
27	17	17	18	17	17	17	18	18	18	18	19	18	18
28	18	18	19	18	18	18	19	19	19	19	20	19	19
29	19	19	20	19	19	19	20	20	20	20	21	20	20
30	20	20	21	20	20	20	21	21	21	21	22	21	21

Frimaire, or Frost-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XIV.
	1793.	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	Nov. 21	Nov. 21	Nov. 22	Nov. 21	Nov. 21	Nov. 21	Nov. 22	Nov. 22	Nov. 22	Nov. 22	Nov. 23	Nov. 22	Nov. 22
2	22	22	23	22	22	22	23	23	23	23	24	23	23
3	23	23	24	23	23	23	24	24	24	24	25	24	24
4	24	24	25	24	24	24	25	25	25	25	26	25	25
5	25	25	26	25	25	25	26	26	26	26	27	26	26
6	26	26	27	26	26	26	27	27	27	27	28	27	27
7	27	27	28	27	27	27	28	28	28	28	29	28	28
8	28	28	29	28	28	28	29	29	29	29	30	29	29
9	29	29	30	29	29	29	30	30	30	30	Dec. 1	30	30
10	30	30	Dec. 1	30	30	30	Dec. 1	Dec. 1	Dec. 1	Dec. 1	2	Dec. 1	Dec. 1
11	Dec. 1	Dec. 1	2	Dec. 1	Dec. 1	Dec. 1	2	2	2	2	3	2	2
12	2	2	3	2	2	2	3	3	3	3	4	3	3
13	3	3	4	3	3	3	4	4	4	4	5	4	4
14	4	4	5	4	4	4	5	5	5	5	6	5	5
15	5	5	6	5	5	5	6	6	6	6	7	6	6
16	6	6	7	6	6	6	7	7	7	7	8	7	7
17	7	7	8	7	7	7	8	8	8	8	9	8	8
18	8	8	9	8	8	8	9	9	9	9	10	9	9
19	9	9	10	9	9	9	10	10	10	10	11	10	10
20	10	10	11	10	10	10	11	11	11	11	12	11	11
21	11	11	12	11	11	11	12	12	12	12	13	12	12
22	12	12	13	12	12	12	13	13	13	13	14	13	13
23	13	13	14	13	13	13	14	14	14	14	15	14	14
24	14	14	15	14	14	14	15	15	15	15	16	15	15
25	15	15	16	15	15	15	16	16	16	16	17	16	16
26	16	16	17	16	16	16	17	17	17	17	18	17	17
27	17	17	18	17	17	17	18	18	18	18	19	18	18
28	18	18	19	18	18	18	19	19	19	19	20	19	19
29	19	19	20	19	19	19	20	20	20	20	21	20	20
30	20	20	21	20	20	20	21	21	21	21	22	21	21

Nivôse, or Snow-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XIV.
	1793.	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	Dec. 21	Dec. 21	Dec. 22	Dec. 21	Dec. 21	Dec. 21	Dec. 22	Dec. 22	Dec. 22	Dec. 22	Dec. 23	Dec. 22	Dec. 22
2	22	22	23	22	22	22	23	23	23	23	24	23	23
3	23	23	24	23	23	23	24	24	24	24	25	24	24
4	24	24	25	24	24	24	25	25	25	25	26	25	25
5	25	25	26	25	25	25	26	26	26	26	27	26	26
6	26	26	27	26	26	26	27	27	27	27	28	27	27
7	27	27	28	27	27	27	28	28	28	28	29	28	28
8	28	28	29	28	28	28	29	29	29	29	30	29	29
9	29	29	30	29	29	29	30	30	30	30	31	30	30
10	30	30	31	30	30	30	31	31	31	31	1804. Jan. 1	31	31
11	31	31	1796. Jan. 1	31	31	31	1800. Jan. 1	1801. Jan. 1	1802. Jan. 1	1803. Jan. 1	2	1805. Jan. 1	
12	1794. Jan. 1	1795. Jan. 1	2	1797. Jan. 1	1798. Jan. 1	1799. Jan. 1	2	2	2	2	3	2	
13	2	2	3	2	2	2	3	3	3	3	4	3	
14	3	3	4	3	3	3	4	4	4	4	5	4	
15	4	4	5	4	4	4	5	5	5	5	6	5	
16	5	5	6	5	5	5	6	6	6	6	7	6	
17	6	6	7	6	6	6	7	7	7	7	8	7	
18	7	7	8	7	7	7	8	8	8	8	9	8	
19	8	8	9	8	8	8	9	9	9	9	10	9	
20	9	9	10	9	9	9	10	10	10	10	11	10	
21	10	10	11	10	10	10	11	11	11	11	12	11	
22	11	11	12	11	11	11	12	12	12	12	13	12	
23	12	12	13	12	12	12	13	13	13	13	14	13	
24	13	13	14	13	13	13	14	14	14	14	15	14	
25	14	14	15	14	14	14	15	15	15	15	16	15	
26	15	15	16	15	15	15	16	16	16	16	17	16	
27	16	16	17	16	16	16	17	17	17	17	18	17	
28	17	17	18	17	17	17	18	18	18	18	19	18	
29	18	18	19	18	18	18	19	19	19	19	20	19	
30	19	19	20	19	19	19	20	20	20	20	21	20	

Pluviôse, or Rain-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.
1	20	20	21	20	20	20	21	21	21	21	22	21
2	21	21	22	21	21	21	22	22	22	22	23	22
3	22	22	23	22	22	22	23	23	23	23	24	23
4	23	23	24	23	23	23	24	24	24	24	25	24
5	24	24	25	24	24	24	25	25	25	25	26	25
6	25	25	26	25	25	25	26	26	26	26	27	26
7	26	26	27	26	26	26	27	27	27	27	28	27
8	27	27	28	27	27	27	28	28	28	28	29	28
9	28	28	29	28	28	28	29	29	29	29	30	29
10	29	29	30	29	29	29	30	30	30	30	31	30
11	30	30	31	30	30	30	31	31	31	31	Feb. 1	31
12	31	31	Feb. 1	31	31	31	Feb. 1	Feb. 1	Feb. 1	Feb. 1	2	Feb. 1
13	Feb. 1	Feb. 1	2	Feb. 1	Feb. 1	Feb. 1	2	2	2	2	3	2
14	2	2	3	2	2	2	3	3	3	3	4	3
15	3	3	4	3	3	3	4	4	4	4	5	4
16	4	4	5	4	4	4	5	5	5	5	6	5
17	5	5	6	5	5	5	6	6	6	6	7	6
18	6	6	7	6	6	6	7	7	7	7	8	7
19	7	7	8	7	7	7	8	8	8	8	9	8
20	8	8	9	8	8	8	9	9	9	9	10	9
21	9	9	10	9	9	9	10	10	10	10	11	10
22	10	10	11	10	10	10	11	11	11	11	12	11
23	11	11	12	11	11	11	12	12	12	12	13	12
24	12	12	13	12	12	12	13	13	13	13	14	13
25	13	13	14	13	13	13	14	14	14	14	15	14
26	14	14	15	14	14	14	15	15	15	15	16	15
27	15	15	16	15	15	15	16	16	16	16	17	16
28	16	16	17	16	16	16	17	17	17	17	18	17
29	17	17	18	17	17	17	18	18	18	18	19	18
30	18	18	19	18	18	18	19	19	19	19	20	19

Ventôse, or Wind-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	Feb. 19	Feb. 19	Feb. 20	Feb. 19	Feb. 19	Feb. 19	Feb. 20	Feb. 20	Feb. 20	Feb. 20	Feb. 21	Feb. 20
2	20	20	21	20	20	20	21	21	21	21	22	21
3	21	21	22	21	21	21	22	22	22	22	23	22
4	22	22	23	22	22	22	23	23	23	23	24	23
5	23	23	24	23	23	23	24	24	24	24	25	24
6	24	24	25	24	24	24	25	25	25	25	26	25
7	25	25	26	25	25	25	26	26	26	26	27	26
8	26	26	27	26	26	26	27	27	27	27	28	27
9	27	27	28	27	27	27	28	28	28	28	29	28
10	28	28	29	28	28	28	Mar. 1	Mar. 1	Mar. 1	Mar. 1	Mar. 1	Mar. 1
11	Mar. 1	Mar. 1	Mar. 1	Mar. 1	Mar. 1	Mar. 1	2	2	2	2	2	2
12	2	2	2	2	2	2	3	3	3	3	3	3
13	3	3	3	3	3	3	4	4	4	4	4	4
14	4	4	4	4	4	4	5	5	5	5	5	5
15	5	5	5	5	5	5	6	6	6	6	6	6
16	6	6	6	6	6	6	7	7	7	7	7	7
17	7	7	7	7	7	7	8	8	8	8	8	8
18	8	8	8	8	8	8	9	9	9	9	9	9
19	9	9	9	9	9	9	10	10	10	10	10	10
20	10	10	10	10	10	10	11	11	11	11	11	11
21	11	11	11	11	11	11	12	12	12	12	12	12
22	12	12	12	12	12	12	13	13	13	13	13	13
23	13	13	13	13	13	13	14	14	14	14	14	14
24	14	14	14	14	14	14	15	15	15	15	15	15
25	15	15	15	15	15	15	16	16	16	16	16	16
26	16	16	16	16	16	16	17	17	17	17	17	17
27	17	17	17	17	17	17	18	18	18	18	18	18
28	18	18	18	18	18	18	19	19	19	19	19	19
29	19	19	19	19	19	19	20	20	20	20	20	20
30	20	20	20	20	20	20	21	21	21	21	21	21

Geminal, or Bud-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.
1	21	21	21	21	21	21	22	22	22	22	22	22
2	22	22	22	22	22	22	23	23	23	23	23	23
3	23	23	23	23	23	23	24	24	24	24	24	24
4	24	24	24	24	24	24	25	25	25	25	25	25
5	25	25	25	25	25	25	26	26	26	26	26	26
6	26	26	26	26	26	26	27	27	27	27	27	27
7	27	27	27	27	27	27	28	28	28	28	28	28
8	28	28	28	28	28	28	29	29	29	29	29	29
9	29	29	29	29	29	29	30	30	30	30	30	30
10	30	30	30	30	30	30	31	31	31	31	31	31
11	31	31	31	31	31	31	April. 1	April. 1	April. 1	April. 1	April. 1	April. 1
12	April. 1	April. 1	April. 1	April. 1	April. 1	April. 1	2	2	2	2	2	2
13	2	2	2	2	2	2	3	3	3	3	3	3
14	3	3	3	3	3	3	4	4	4	4	4	4
15	4	4	4	4	4	4	5	5	5	5	5	5
16	5	5	5	5	5	5	6	6	6	6	6	6
17	6	6	6	6	6	6	7	7	7	7	7	7
18	7	7	7	7	7	7	8	8	8	8	8	8
19	8	8	8	8	8	8	9	9	9	9	9	9
20	9	9	9	9	9	9	10	10	10	10	10	10
21	10	10	10	10	10	10	11	11	11	11	11	11
22	11	11	11	11	11	11	12	12	12	12	12	12
23	12	12	12	12	12	12	13	13	13	13	13	13
24	13	13	13	13	13	13	14	14	14	14	14	14
25	14	14	14	14	14	14	15	15	15	15	15	15
26	15	15	15	15	15	15	16	16	16	16	16	16
27	16	16	16	16	16	16	17	17	17	17	17	17
28	17	17	17	17	17	17	18	18	18	18	18	18
29	18	18	18	18	18	18	19	19	19	19	19	19
30	19	19	19	19	19	19	20	20	20	20	20	20

Floréal, or Flower-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	April. 20	April. 20	April. 20	April. 20	April. 20	April. 20	April. 21	April. 21	April. 21	April. 21	April. 21	April. 21
2	21	21	21	21	21	21	22	22	22	22	22	22
3	22	22	22	22	22	22	23	23	23	23	23	23
4	23	23	23	23	23	23	24	24	24	24	24	24
5	24	24	24	24	24	24	25	25	25	25	25	25
6	25	25	25	25	25	25	26	26	26	26	26	26
7	26	26	26	26	26	26	27	27	27	27	27	27
8	27	27	27	27	27	27	28	28	28	28	28	28
9	28	28	28	28	28	28	29	29	29	29	29	29
10	29	29	29	29	29	29	30	30	30	30	30	30
11	30	30	30	30	30	30	May. 1	May. 1	May. 1	May. 1	May. 1	May. 1
12	May. 1	May. 1	May. 1	May. 1	May. 1	May. 1	2	2	2	2	2	2
13	2	2	2	2	2	2	3	3	3	3	3	3
14	3	3	3	3	3	3	4	4	4	4	4	4
15	4	4	4	4	4	4	5	5	5	5	5	5
16	5	5	5	5	5	5	6	6	6	6	6	6
17	6	6	6	6	6	6	7	7	7	7	7	7
18	7	7	7	7	7	7	8	8	8	8	8	8
19	8	8	8	8	8	8	9	9	9	9	9	9
20	9	9	9	9	9	9	10	10	10	10	10	10
21	10	10	10	10	10	10	11	11	11	11	11	11
22	11	11	11	11	11	11	12	12	12	12	12	12
23	12	12	12	12	12	12	13	13	13	13	13	13
24	13	13	13	13	13	13	14	14	14	14	14	14
25	14	14	14	14	14	14	15	15	15	15	15	15
26	15	15	15	15	15	15	16	16	16	16	16	16
27	16	16	16	16	16	16	17	17	17	17	17	17
28	17	17	17	17	17	17	18	18	18	18	18	18
29	18	18	18	18	18	18	19	19	19	19	19	19
30	19	19	19	19	19	19	20	20	20	20	20	20

Prairial, or Pasture-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
	May.	May.	May.	May.	May.	May.	May.	May.	May.	May.	May.	May.
1	20	20	20	20	20	20	21	21	21	21	21	21
2	21	21	21	21	21	21	22	22	22	22	22	22
3	22	22	22	22	22	22	23	23	23	23	23	23
4	23	23	23	23	23	23	24	24	24	24	24	24
5	24	24	24	24	24	24	25	25	25	25	25	25
6	25	25	25	25	25	25	26	26	26	26	26	26
7	26	26	26	26	26	26	27	27	27	27	27	27
8	27	27	27	27	27	27	28	28	28	28	28	28
9	28	28	28	28	28	28	29	29	29	29	29	29
10	29	29	29	29	29	29	30	30	30	30	30	30
11	30	30	30	30	30	30	31	31	31	31	31	31
12	31	31	31	31	31	31	June. 1	June. 1	June. 1	June. 1	June. 1	June. 1
13	June. 1	June. 1	June. 1	June. 1	June. 1	June. 1	2	2	2	2	2	2
14	2	2	2	2	2	2	3	3	3	3	3	3
15	3	3	3	3	3	3	4	4	4	4	4	4
16	4	4	4	4	4	4	5	5	5	5	5	5
17	5	5	5	5	5	5	6	6	6	6	6	6
18	6	6	6	6	6	6	7	7	7	7	7	7
19	7	7	7	7	7	7	8	8	8	8	8	8
20	8	8	8	8	8	8	9	9	9	9	9	9
21	9	9	9	9	9	9	10	10	10	10	10	10
22	10	10	10	10	10	10	11	11	11	11	11	11
23	11	11	11	11	11	11	12	12	12	12	12	12
24	12	12	12	12	12	12	13	13	13	13	13	13
25	13	13	13	13	13	13	14	14	14	14	14	14
26	14	14	14	14	14	14	15	15	15	15	15	15
27	15	15	15	15	15	15	16	16	16	16	16	16
28	16	16	16	16	16	16	17	17	17	17	17	17
29	17	17	17	17	17	17	18	18	18	18	18	18
30	18	18	18	18	18	18	19	19	19	19	19	19

Messidor, or Harvest-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	June. 19	June. 19	June. 19	June. 19	June. 19	June. 19	June. 20	June. 20	June. 20	June. 20	June. 20	June. 20
2	20	20	20	20	20	20	21	21	21	21	21	21
3	21	21	21	21	21	21	22	22	22	22	22	22
4	22	22	22	22	22	22	23	23	23	23	23	23
5	23	23	23	23	23	23	24	24	24	24	24	24
6	24	24	24	24	24	24	25	25	25	25	25	25
7	25	25	25	25	25	25	26	26	26	26	26	26
8	26	26	26	26	26	26	27	27	27	27	27	27
9	27	27	27	27	27	27	28	28	28	28	28	28
10	28	28	28	28	28	28	29	29	29	29	29	29
11	29	29	29	29	29	29	30	30	30	30	30	30
12	30	30	30	30	30	30	July. 1	July. 1	July. 1	July. 1	July. 1	July. 1
13	July. 1	July. 1	July. 1	July. 1	July. 1	July. 1	2	2	2	2	2	2
14	2	2	2	2	2	2	3	3	3	3	3	3
15	3	3	3	3	3	3	4	4	4	4	4	4
16	4	4	4	4	4	4	5	5	5	5	5	5
17	5	5	5	5	5	5	6	6	6	6	6	6
18	6	6	6	6	6	6	7	7	7	7	7	7
19	7	7	7	7	7	7	8	8	8	8	8	8
20	8	8	8	8	8	8	9	9	9	9	9	9
21	9	9	9	9	9	9	10	10	10	10	10	10
22	10	10	10	10	10	10	11	11	11	11	11	11
23	11	11	11	11	11	11	12	12	12	12	12	12
24	12	12	12	12	12	12	13	13	13	13	13	13
25	13	13	13	13	13	13	14	14	14	14	14	14
26	14	14	14	14	14	14	15	15	15	15	15	15
27	15	15	15	15	15	15	16	16	16	16	16	16
28	16	16	16	16	16	16	17	17	17	17	17	17
29	17	17	17	17	17	17	18	18	18	18	18	18
30	18	18	18	18	18	18	19	19	19	19	19	19

Thermidor, or Heat-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	July. 19	July. 19	July. 19	July. 19	July. 19	July. 19	July. 20	July. 20	July. 20	July. 20	July. 20	July. 20
2	20	20	20	20	20	20	21	21	21	21	21	21
3	21	21	21	21	21	21	22	22	22	22	22	22
4	22	22	22	22	22	22	23	23	23	23	23	23
5	23	23	23	23	23	23	24	24	24	24	24	24
6	24	24	24	24	24	24	25	25	25	25	25	25
7	25	25	25	25	25	25	26	26	26	26	26	26
8	26	26	26	26	26	26	27	27	27	27	27	27
9	27	27	27	27	27	27	28	28	28	28	28	28
10	28	28	28	28	28	28	29	29	29	29	29	29
11	29	29	29	29	29	29	30	30	30	30	30	30
12	30	30	30	30	30	30	31	31	31	31	31	31
13	31	31	31	31	31	31	Aug. 1	Aug. 1	Aug. 1	Aug. 1	Aug. 1	Aug. 1
14	Aug. 1	Aug. 1	Aug. 1	Aug. 1	Aug. 1	Aug. 1	2	2	2	2	2	2
15	2	2	2	2	2	2	3	3	3	3	3	3
16	3	3	3	3	3	3	4	4	4	4	4	4
17	4	4	4	4	4	4	5	5	5	5	5	5
18	5	5	5	5	5	5	6	6	6	6	6	6
19	6	6	6	6	6	6	7	7	7	7	7	7
20	7	7	7	7	7	7	8	8	8	8	8	8
21	8	8	8	8	8	8	9	9	9	9	9	9
22	9	9	9	9	9	9	10	10	10	10	10	10
23	10	10	10	10	10	10	11	11	11	11	11	11
24	11	11	11	11	11	11	12	12	12	12	12	12
25	12	12	12	12	12	12	13	13	13	13	13	13
26	13	13	13	13	13	13	14	14	14	14	14	14
27	14	14	14	14	14	14	15	15	15	15	15	15
28	15	15	15	15	15	15	16	16	16	16	16	16
29	16	16	16	16	16	16	17	17	17	17	17	17
30	17	17	17	17	17	17	18	18	18	18	18	18

Fructidor, or Fruit-Month.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
1	Aug. 18	Aug. 18	Aug. 18	Aug. 18	Aug. 18	Aug. 18	Aug. 19	Aug. 19	Aug. 19	Aug. 19	Aug. 19	Aug. 19
2	19	19	19	19	19	19	20	20	20	20	20	20
3	20	20	20	20	20	20	21	21	21	21	21	21
4	21	21	21	21	21	21	22	22	22	22	22	22
5	22	22	22	22	22	22	23	23	23	23	23	23
6	23	23	23	23	23	23	24	24	24	24	24	24
7	24	24	24	24	24	24	25	25	25	25	25	25
8	25	25	25	25	25	25	26	26	26	26	26	26
9	26	26	26	26	26	26	27	27	27	27	27	27
10	27	27	27	27	27	27	28	28	28	28	28	28
11	28	28	28	28	28	28	29	29	29	29	29	29
12	29	29	29	29	29	29	30	30	30	30	30	30
13	30	30	30	30	30	30	31	31	31	31	31	31
14	31	31	31	31	31	31	Sept. 1	Sept. 1	Sept. 1	Sept. 1	Sept. 1	Sept. 1
15	Sept. 1	Sept. 1	Sept. 1	Sept. 1	Sept. 1	Sept. 1	2	2	2	2	2	2
16	2	2	2	2	2	2	3	3	3	3	3	3
17	3	3	3	3	3	3	4	4	4	4	4	4
18	4	4	4	4	4	4	5	5	5	5	5	5
19	5	5	5	5	5	5	6	6	6	6	6	6
20	6	6	6	6	6	6	7	7	7	7	7	7
21	7	7	7	7	7	7	8	8	8	8	8	8
22	8	8	8	8	8	8	9	9	9	9	9	9
23	9	9	9	9	9	9	10	10	10	10	10	10
24	10	10	10	10	10	10	11	11	11	11	11	11
25	11	11	11	11	11	11	12	12	12	12	12	12
26	12	12	12	12	12	12	13	13	13	13	13	13
27	13	13	13	13	13	13	14	14	14	14	14	14
28	14	14	14	14	14	14	15	15	15	15	15	15
29	15	15	15	15	15	15	16	16	16	16	16	16
30	16	16	16	16	16	16	17	17	17	17	17	17

Complementary Days.

Day.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.
	1794.	1795.	1796.	1797.	1798.	1799.	1800.	1801.	1802.	1803.	1804.	1805.
	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.
1*	17	17	17	17	17	17	18	18	18	18	18	18
2	18	18	18	18	18	18	19	19	19	19	19	19
3	19	19	19	19	19	19	20	20	20	20	20	20
4	20	20	20	20	20	20	21	21	21	21	21	21
5	21	21	21	21	21	21	22	22	22	22	22	22
6		22				22				23		

* Complementary days, or Sansculottides, called *Primidi*, *Duodi*, *Tridi*, *Quartidi*, *Quintidi*, and *Sextidi*. These days were not considered as belonging to any month. The sonorous names given to the months by the innovators have been freely translated thus :—

Wheezy,	Slippy,	Showery,	Hoppy,
Sneezy,	Drippy,	Flowery,	Croppy,
Breezy.	Nippy.	Bowery.	Poppy.

Chambers's Descriptive Astronomy, p. 443.

Six hundred and forty-first Meeting.

February 13, 1872. — ADJOURNED STATED MEETING.

The PRESIDENT in the chair.

Professor John Trowbridge remarked : —

While experimenting upon the electromotive action of fluids separated by membranes, I was led to reflect upon the surface action observed by Tomlinson, and to examine it from an electrical point of view. I made use of a bath of sulphate of zinc in which were placed the amalgamated zinc terminals of a galvanometer. On dropping liquids upon the surface of this bath electrical currents were produced, but they were not due to surface action ; for, on using a drop of colored liquid, the deflection of the galvanometer was observed before the liquid reached the terminals. This was also proved by coating the plates of the terminals with paraffine, with the exception of a narrow strip two inches below the surface of the bath.